

**Set Name   Query**

side by side

**Hit Count   Set Name**

result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE;  
 PLUR=YES; OP=AND*

<u>L9</u>	L8 and coacervate	0	<u>L9</u>
<u>L8</u>	DeLuca-Patrick-P\$.in.	9	<u>L8</u>
<u>L7</u>	L6 not L3	25	<u>L7</u>
<u>L6</u>	L5 and ((polycation or polycationic) and (polyanion or polyanionic))	29	<u>L6</u>
<u>L5</u>	(coacervate) and (vector or (nucleic acid) or virus or adenovirus)	170	<u>L5</u>
<u>L4</u>	L3 and (gelatin and alginate)	2	<u>L4</u>
<u>L3</u>	(coacervate) same (vector or (nucleic adj acid) or virus)	26	<u>L3</u>
<u>L2</u>	(coacervate adj microsphere)	5	<u>L2</u>
<u>L1</u>	Garver-robert-I\$.in.	3	<u>L1</u>

END OF SEARCH HISTORY

### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)  
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

\*\*\*\*\* HHHHHHHH SSSSSSSS?

### Status: Signing onto Dialog

\*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Welcome to DIALOG

### Status: Connected

Dialog level 03.02.02D

Last logoff: 16sep03 10:05:43

Logon file001 17sep03 13:27:42

\*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

--File 654 - US published applications from March 15, 2001 to the present are now online. Please see HELP NEWS 654 for details.

\*\*\*

--File 581 - The 2003 annual reload of Population Demographics is complete. Please see Help News581 for details.

\*\*\*

\*\*\*

--File 990 - NewsRoom now contains February 2003 to current records.  
File 992 - NewsRoom 2003 archive has been newly created and contains records from January 2003. The oldest months's records roll out of File 990 and into File 992 on the first weekend of each month.  
To search all 2003 records BEGIN 990, 992, or B NEWS2003, a new OneSearch category.

\*\*\*

--Connect Time joins DialUnits as pricing options on Dialog.  
See HELP CONNECT for information.

\*\*\*

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--SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.

\*\*\*

--Important news for public and academic libraries. See HELP LIBRARY for more information.

\*\*\*

--Important Notice to Freelance Authors--  
See HELP FREELANCE for more information

\*\*\*

NEW FILES RELEASED

\*\*\*World News Connection (File 985)

\*\*\*Dialog NewsRoom - 2003 Archive (File 992)

\*\*\*TRADEMARKSCAN-Czech Republic (File 680)

\*\*\*TRADEMARKSCAN-Hungary (File 681)

\*\*\*TRADEMARKSCAN-Poland (File 682)

\*\*\*

UPDATING RESUMED

\*\*\*

RELOADED

\*\*\*Population Demographics -(File 581)

\*\*\*CLAIMS Citation (Files 220-222)

REMOVED

\*\*\*

>>> Enter BEGIN HCOMBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<

\*\*\*\*

KWIC is set to 50.  
HIGHLIGHT set on as '\*'

File 1:ERIC 1966-2003/Sep 11  
(c) format only 2003 The Dialog Corporation

Set	Items	Description
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Cost is in DialUnits

?b 155, 159

17sep03 13:27:58 User259876 Session D546.1

\$0.32 0.090 DialUnits File1

\$0.32 Estimated cost File1

\$0.06 TELNET

\$0.38 Estimated cost this search

\$0.38 Estimated total session cost 0.090 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2003/Sep W2

(c) format only 2003 The Dialog Corp.

**\*File 155: Medline has been reloaded and accession numbers have changed.** Please see HELP NEWS 155.

File 159:Cancerlit 1975-2002/Oct

(c) format only 2002 Dialog Corporation

**\*File 159: Cancerlit ceases updating with immediate effect.**  
Please see HELP NEWS.

Set	Items	Description
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?s (crosslinking (w) agent) (s) (calcium)

7166 CROSSLINKING

197852 AGENT

321744 CALCIUM

S1 9 (CROSSLINKING (W) AGENT) (S) (CALCIUM)

?s s1 and (coacervate)

9 S1

127 COACERVATE

S2 0 S1 AND (COACERVATE)

?rd s1

...completed examining records

S3 9 RD S1 (unique items)

?t s3/3,k/all

**3/3,K/1 (Item 1 from file: 155)**

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

14871557 22321547 PMID: 12434399

**Textural profiling and statistical optimization of crosslinked calcium-alginate-pectinate-cellulose acetophthalate gelisphere matrices.**

Pillay Viñess; Danckwerts Michael P

University of the Witwatersrand, Department of Pharmacy and Pharmacology, Medical School, 7 York Road, Parktown, 2193, Johannesburg, Gauteng, South Africa. pillayvi@therapy.wits.ac.za

Journal of pharmaceutical sciences (United States) Dec 2002, 91 (12)

p2559-70, ISSN 0022-3549 Journal Code: 2985195R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

A 2(5) factorial design was employed to statistically evaluate the textural properties of a crosslinked \*calcium\*-alginate-pectinate-cellulose acetophthalate gelisphere system. In accordance with the factorial matrix, gelispheres were formulated by titrating a combination polymeric solution comprised of sodium alginate, pectin and/or cellulose acetophthalate into an inducer solution (\*crosslinking\* \*agent\*) consisting of \*calcium\* and/or acetate ions. A Texture Analyzer was used to profile the gelisphere matrices for their resilience in the unhydrated and hydrated states, the fracture...

**3/3,K/2 (Item 2 from file: 155)**

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

14725304 22208136 PMID: 12219828

**Development of an injectable, in situ crosslinkable, degradable polymeric carrier for osteogenic cell populations. Part 3. Proliferation and differentiation of encapsulated marrow stromal osteoblasts cultured on crosslinking poly(propylene fumarate).**

Payne Richard G; McGonigle Joseph S; Yaszemski Michael J; Yasko Alan W; Mikos Antonios G

Biomaterials (England) Nov 2002, 23 (22) p4381-7, ISSN 0142-9612  
Journal Code: 8100316

Contract/Grant No.: 5T32GM08362; GM; NIGMS; R01-DE13031; DE; NIDCR

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... long-term cell proliferation and phenotypic expression for microparticles placed on crosslinking poly(propylene fumarate) (PPF) composites using N-vinyl pyrrolidinone (N-VP) as a \*crosslinking\* \*agent\* over a 28 day time period. Encapsulated cells (ECs) were seeded on actively crosslinking PPF composites 6 min after initiation of the crosslinking reaction, and...

... 5, 1:0.1, and 1:0.05. Samples were taken at specified time points and analyzed by DNA, 3H-thymidine, alkaline phosphatase, osteocalcin, and \*calcium\* assays, and the measurements were compared with those for nonencapsulated cells (NCs). The results showed that encapsulated marrow stromal cells exhibited much higher viability, proliferation...

**3/3,K/3 (Item 3 from file: 155)**

DIALOG(R) File 155:MEDLINE(R)

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14387415 22029504 PMID: 12033592

**In vivo evaluation of cellular and acellular bovine pericardia fixed with a naturally occurring crosslinking agent (genipin).**

Chang Yen; Tsai Chen-Chi; Liang Huang-Chien; Sung Hsing-Wen

Division of Cardiovascular Surgery, Veterans General Hospital-Taichung and College of Medicine, National Yang-Ming University, Taipei, Taiwan.

Biomaterials (England) Jun 2002, 23 (12) p2447-57, ISSN 0142-9612  
Journal Code: 8100316

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... host-cell migration to regenerate the tissue. The study was to evaluate the biocompatibility of cellular and acellular bovine pericardia fixed with a naturally occurring \*crosslinking\* \*agent\* (genipin) implanted subcutaneously in a growing rat model. Additionally, the tissue regeneration rate in the genipin-fixed acellular tissue was investigated. The glutaraldehyde-fixed counterparts...

... longer than their genipin-fixed counterparts. The tissue regeneration rate for the genipin-fixed acellular tissue was significantly faster than its glutaraldehyde-fixed counterpart. The \*calcium\* content of each studied group, analyzed by atomic absorption, did not change significantly until at the 52nd week, postoperatively. The differences in \*calcium\* content between the cellular and acellular tissues were insignificant for both the glutaraldehyde- and genipin-fixed groups throughout the entire course of the study. In...

3/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10298029 96100003 PMID: 8529419

**Purification and oligomeric state of the major lens fiber cell membrane proteins.**

Jarvis L J; Louis C F

Department of Biochemistry, University of Minnesota, St Paul 55108, USA.

Current eye research (ENGLAND) Sep 1995, 14 (9) p799-808, ISSN

0271-3683 Journal Code: 8104312

Contract/Grant No.: EY05684; EY; NEI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... expected for the monomeric proteins. The purified proteins retained their ability to be phosphorylated by cAMP-dependent protein kinase, and to bind calmodulin in a \*calcium\* and magnesium dependent manner. The heterobifunctional covalent chemical \*crosslinking\* \*agent\* N-5-azido-2-nitro-benzoyloxysuccinimide (ANB-NOS), and the thiol oxidant cupric phenanthroline were used to identify the oligomeric states of these proteins. Crosslinking...

3/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10164752 22166326 PMID: 12176253

**Drug release properties of pectinate microspheres prepared by emulsification method.**

Wong T; Lee H; Chan L; Heng P

Department of Pharmacy, Faculty of Science, National University of Singapore, 18 Science Drive 4, S117543, Singapore, Singapore.

International journal of pharmaceutics (Netherlands) Aug 21 2002, 242

(1-2) p233-7, ISSN 0378-5173 Journal Code: 7804127

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... of pectin for use in making microspheres for sustained-release of drugs. The pectin microspheres were prepared by external gelation using an emulsification technique with \*calcium\* chloride as the \*crosslinking\* \*agent\*. The influences of drug core (sulphanilamide, sulphaguanidine and sulphathiazole) and dissolution media (distilled water, USP HCl and phosphate buffers) on the drug release properties of...

3/3,K/6 (Item 6 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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09839527 21650639 PMID: 11790504

**Oral delayed-release system based on Zn-pectinate gel (ZPG)**

microparticles as an alternative carrier to calcium pectinate beads for colonic drug delivery.

El-Gibaly Ibrahim

Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut, Egypt. giba@aun.eun.eg

International journal of pharmaceutics (Netherlands) Jan 31 2002, 232 (1-2) p199-211, ISSN 0378-5173 Journal Code: 7804127

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...the analysis of variance results showed that the release of ketoprofen in simulated intestinal fluid (S.I.F., pH 7.4) was strongly affected by \*crosslinking\* \*agent\* concentration and initial drug amount, but not particularly affected by the amount of pectin added. The investigated drug concentration factor has significantly increased the drug...

... release of ketoprofen in S.I.F. (pH 7.4) to be 5.28-37.82 times (depending on formulation parameters), lower than the conventional \*calcium\* pectinate beads. Therefore, this approach suggests that ZPG microparticles and their modified-release formulations are promising as useful controlled-release carriers for colon-targeted delivery...

3/3,K/7 (Item 7 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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09778021 21583709 PMID: 11726898

**Reconstruction of the right ventricular outflow tract with a bovine jugular vein graft fixed with a naturally occurring crosslinking agent (genipin) in a canine model.**

Chang Y; Tsai C C; Liang H C; Sung H W

Division of Cardiovascular Surgery, Veterans General Hospital-Taichung, and College of Medicine, National Yang-Ming University, Taipei, Taiwan.

Journal of thoracic and cardiovascular surgery (United States) Dec 2001, 122 (6) p1208-18, ISSN 0022-5223 Journal Code: 0376343

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... bovine jugular veins with a retained native valve procured from a slaughterhouse were used as raw materials to fabricate the valved conduits. A naturally occurring \*crosslinking\* \*agent\*, genipin, was used to fix the procured jugular veins. The glutaraldehyde-fixed counterpart was used as a control. A canine model was used in the...

... more severe inflammatory reaction was observed for the glutaraldehyde-fixed conduit than for its genipin-fixed counterpart throughout the entire course of the study. The \*calcium\* contents of the samples before implantation and those retrieved at distinct implantation duration were minimal for both the glutaraldehyde- and genipin-fixed tissues. CONCLUSION: Although...

3/3,K/8 (Item 8 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

06419504 90044051 PMID: 2530454

**Nature and site of phospholamban regulation of the Ca<sup>2+</sup> pump of sarcoplasmic reticulum.**

James P; Inui M; Tada M; Chiesi M; Carafoli E

Laboratory of Biochemistry, Swiss Federal Institute of Technology, Zurich.

Nature (ENGLAND) Nov 1989, 342 (6245) p90-2, IS 0028-0836  
Journal Code: 0410462  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

... ions from the cytosol, necessary for the efficient relaxation of cardiac muscle cells, is performed by the  $\text{Ca}^{2+}$ -pumping ATPase of the sarcoplasmic reticulum. The \*calcium\* pump is activated by cyclic AMP- and calmodulin-dependent phosphorylation of phospholamban, an integral membrane protein of the sarcoplasmic reticulum. Using a heterobifunctional \*crosslinking\* \*agent\* which can be cleaved and photoactivated, we provide evidence for a direct interaction between the two proteins. Only the non-phosphorylated form of phospholamban interacts with the ATPase, demonstrating that phospholamban is an endogenous inhibitor that is removed from the ATPase by phosphorylation. Non-phosphorylated phospholamban interacts only with the \*calcium\*-free conformation of the ATPase and is released when it is converted to the \*calcium\*-bound state. We localized the site of interaction to a single peptide isolated after cyanogen bromide cleavage of the ATPase. The peptide derives from a...

3/3,K/9 (Item 9 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

04024168 83153139 PMID: 6830590

**Calcium effects on prothrombin and its reaction with bifunctional alkylating reagents.**

Silversmith R E; Wei G J; Nelsestuen G L  
Biochemical and biophysical research communications (UNITED STATES) Feb 28 1983, 111 (1) p213-8, ISSN 0006-291X Journal Code: 0372516  
Contract/Grant No.: HL 15728; HL; NHLBI  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

Monodisperse bovine prothrombin was prepared and its molecular states under several conditions examined. The protein showed no tendency to self-associate in the absence of \*calcium\*. \*Calcium\* (4 mM) caused small increases in the apparent molecular weight of the protein which may or may not represent protein dimerization with very low affinity. The allowed conclusion was that \*calcium\*-induced prothrombin dimerization is minimal up to protein concentrations of many mg/ml. \*Calcium\*-induced protein shape changes did not measurably alter the protein diffusion constant. A bifunctional alkylating reagent did produce extensive \*calcium\*-dependent prothrombin crosslinking. Prothrombin dimers formed by the \*crosslinking\* \*agent\* were not a measure of the state of native prothrombin.  
?ds

Set	Items	Description
S1	9	(CROSSLINKING (W) AGENT) (S) (CALCIUM)
S2	0	S1 AND (COACERVATE)
S3	9	RD S1 (unique items)
?s (crosslinking (w) agent) and (calcium)		
	7166	CROSSLINKING
	197852	AGENT
	300	CROSSLINKING(W)AGENT
	321744	CALCIUM
S4	13	(CROSSLINKING (W) AGENT) AND (CALCIUM)
?s s4 and (coacervate)		
	13	S4
	127	COACERVATE
S5	0	S4 AND (COACERVATE)
?s (coacervate) (s) (calcium)		

```

      127 COACERV
    321744 CALCIUM
S6      10 (COACERVATE) (S) (CALCIUM)
?rd
...completed examining records
S7      9 RD (unique items)
?s s9 not s3
>>>"S9" does not exist
      0 S9
      9 S2
S8      0 S9 NOT S3
?logout
17sep03 13:32:28 User259876 Session D546.2
$2.56      0.801 DialUnits File155
$1.89      9 Type(s) in Format 3
$1.89      9 Types
$4.45 Estimated cost File155
$0.54      0.184 DialUnits File159
$0.54 Estimated cost File159
OneSearch, 2 files, 0.985 DialUnits FileOS
$1.16 TELNET
$6.15 Estimated cost this search
$6.53 Estimated total session cost 1.075 DialUnits

```

### Status: Signed Off. (5 minutes)